Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) An immunochemical assay for anti-HM1.24 antibody, said assay comprising the steps of reacting soluble HM1.24 antigen protein and anti-HM1.24 antibody contained in a test sample, and then detecting or determining the anti-HM1.24 antibody bound to the soluble HM1.24 antigen protein, wherein the soluble HM1.24 antigen protein is:
- (a) a protein having consisting of the amino acid sequence modified by lacking the last 17 or 14 amino acid residues from a C-terminus of C terminal in the amino acid sequence shown in of SEQ ID NO:20;
- (b) a protein having the amino acid sequence modified by lacking 17 or 14 amino acid residues from C-terminal, and lacking 27 amino acid residues from N-terminal in the amino acid sequence shown in SEQ ID NO:20;

or

- (c) a fusion protein comprising the protein described in the above (a) or (b), and a peptide selected from the group consisting of FLAG, 6 x His comprising 6 histidine residues (SEQ ID NO: 30), 10 x His (SEQ ID NO: 31), influenza hemagglutinin, fragments of human c-myc, fragments of VSV GP, fragments of p18HIV, T7-tag, HSV tag, E-tag, fragments of SV40T antigen, lektag, fragments of α tubulin, B-tag, and fragments of Protein C, or a polypeptide selected from the group consisting of glutathione S-transferase, HA, the constant regions of immunoglobulin, β -galactosidase, and maltose binding protein.
- 2. (Original) The immunochemical assay according to claim 1 wherein said soluble HM1.24 antigen protein is bound to a support.
- 3. (Withdrawn) An immunochemical assay for soluble HM1.24 antigen protein, said method comprising the steps of reacting anti-HM1.24 antibody and soluble HM1.24 antigen protein contained in a test sample, and then detecting or determining the soluble

HM1.24 antigen protein bound to the anti-HM1.24 antibody, wherein the soluble HM1.24 antigenic protein is:

- (a) a protein having the amino acid sequence modified by lacking 17 or 14 amino acid residues from C-terminal in the amino acid sequence shown in SEQ ID NO:20;
- (b) a protein having the amino acid sequence modified by lacking 17 or 14 amino acid residues from C-terminal, and lacking 27 amino acid residues from N-terminal in the amino acid sequence shown in SEQ ID NO:20;

or

- (c) a fusion protein comprising the protein described in the above (a) or (b), and a peptide selected from a group consisting of FLAG, 6 x His comprising 6 histidine residues (SEQ ID NO: 30), 10 x His (SEQ ID NO: 31), influenza hemagglutinin, fragments of human c-myc, fragments of VSV-GP, fragments of p18HIV, T7-tag, HSV-tag, E-tag, fragments of SV40T antigen, lcktag, fragments of α -tubulin, B-tag, and fragments of Protein C, or a polypeptide selected from a group consisting of glutathione S-transferase, HA, the constant regions of immunoglobulin, β -galactosidase, and maltose-binding protein.
- 4. (Withdrawn) The immunochemical assay according to claim 3 wherein said anti-HM1.24 antibody is bound to a support.
 - 5. (Canceled)
- 6. (Previously Presented) The immunochemical assay according to claim 2, wherein said support is a bead or a plate.
- 7. (Currently Amended) The immunochemical assay according to claim 1 wherein the **bound** anti-HM1.24 antibody bound to the soluble HM1.24 antigen protein or the **bound** soluble HM1.24 antigen protein bound to the anti-HM1.24 antibody is detected or determined using a primary antibody against the anti-HM1.24 antibody or a primary antibody against the soluble HM1.24 antigen protein, **respectively**.

- 8. (Currently Amended) The immunochemical assay according to claim 1 wherein the **bound** anti-HM1.24 antibody bound to the soluble HM1.24 antigen protein or the **bound** soluble HM1.24 antigen protein bound to the anti-HM1.24 antibody is detected or determined using a primary antibody against the anti-HM1.24 antibody or a primary antibody against the soluble HM1.24 antigen protein, **respectively**, and a second antibody against said primary antibody.
- 9. (Currently Amended) The immunochemical assay according to claim 8, wherein the primary antibody or the second antibody is labeled with a radioisotope, an enzyme, biotin/avidin biotin, avidin, or a fluorogenic substance.
- 10. (Withdrawn) The soluble HM1.24 antigen protein having the amino acid sequence modified by lacking 17 or less amino acid residues from the C-terminal in the amino acid sequence as set forth in SEQ ID NO: 1, or a protein having an amino acid sequence modified by lacking 17 or less amino acid residues from the C-terminal, and lacking 27 or less amino acid residues from the N-terminal in the amino acid sequence shown in SEQ ID NO: 1.
- 11. (Withdrawn) A fusion protein of the soluble HM1.24 antigen protein according to claim 10 and another peptide or polypeptide.
- 12. (Withdrawn) DNA encoding the soluble HM1.24 antigen protein or the fusion protein of the soluble HM1.24 antigen protein and another peptide or polypeptide according to claim 10.
- 13. (Currently Amended) The immunochemical assay according to claim 7, wherein the primary antibody is labeled with a radioisotope, an enzyme, biotin/avidin biotin, avidin, or a fluorogenic substance.
- 14. (Withdrawn) DNA encoding the soluble HM1.24 antigen protein or the fusion protein of the soluble HM1.24 antigen protein and another peptide or polypeptide according to claim 11.

- 15. (Withdrawn) The immunochemical assay according to claim 4, wherein said support is a bead or a plate.
- 16. (Withdrawn) The immunochemical assay according to claim 4 wherein said support is beads or a plate.
- 17. (Currently Amended) An immunochemical assay for anti-HM1.24 antibody, said assay comprising the steps of reacting soluble HM1.24 antigen protein and anti-HM1.24 antibody contained in a test sample, and then detecting or determining the anti-HM1.24 antibody bound to the soluble HM1.24 antigen protein, wherein the soluble HM1.24 antigen protein is:
- (a) a protein having consisting of the amino acid sequence modified by lacking the last 17 amino acid residues from a C-terminus of C-terminal in the amino acid sequence shown in of SEQ ID NO:205
- (b) a protein having the amino acid sequence modified by lacking 17 amino acid residues from C terminal, and lacking 27 amino acid residues from N terminal in the amino acid sequence shown in SEQ ID NO:20;

or

(c) a fusion protein comprising the protein described in the above (a) or (b), and a peptide selected from the group consisting of FLAG, 6 x His comprising 6 histidine residues (SEQ ID NO: 30), 10 x His (SEQ ID NO: 31), influenza hemagglutinin, fragments of human c myc, fragments of VSV-GP, fragments of p18HIV, T7-tag, HSV-tag, E-tag, fragments of SV40T antigen, lcktag, fragments of α -tubulin, B-tag, and fragments of Protein C, or a polypeptide selected from the group consisting of glutathione S-transferase, HA, the constant regions of immunoglobulin, β -galactosidase, and maltose-binding protein.